



This listing of claims will replace all prior versions and listings of claims in the application:

1 1. (currently amended) A wireless communication apparatus
2 having a transmission power control function used to control
3 transmission power of the ~~own communication station~~ apparatus
4 by employing a transmission power control bit sent from a
5 communication counter station to the ~~own communication station~~
6 apparatus, comprising:

7 a control period changing unit which dynamically changes
8 a control period of the transmission power control bit in
9 response to a transmission condition.

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1 2. (original) A wireless communication apparatus as
2 claimed in claim 1 further comprising a transmission power
3 control range changing unit which changes a transmission power
4 control range corresponding to the transmission power control
5 bit.

1 3. (currently amended) A wireless communication apparatus
2 as claimed in claim 1 further comprising a condition detecting
3 unit which detects a condition of the ~~own communication~~
4 ~~station~~ apparatus and a condition of the communication counter
5 station, wherein said control period changing unit changes the
6 control period based upon the detected condition.

1 4. (currently amended) A wireless communication apparatus
2 as claimed in claim 2 further comprising a condition detecting
3 unit which detects a condition of the ~~own communication~~
4 ~~station~~ apparatus and a condition of the communication counter
5 station, wherein said control period changing unit changes
6 the control period based upon the detected condition, and
7 further wherein said transmission power control range changing
8 unit changes the transmission power control range based upon
9 the detected condition.

1 5. (currently amended) A wireless communication
2 apparatus having a transmission power control function used to
3 control said transmission power, comprising:

4 a first power amplifier and a second power amplifier
5 which amplify transmission power transmitted from the ~~own~~
6 ~~communication station~~ apparatus to the communication counter
7 station;

8 a power amplification control unit which controls a gain
9 of said first power amplifier;

10 a matching unit which performs a matching operation of a
11 characteristic of said second power amplifier ~~for~~ on an input
12 to said second power amplifier; and

13 a matching control unit which controls said matching
14 unit.

1 6. (currently amended) A wireless communication apparatus
2 as claimed in claim 5 further comprising:

3 a transmission power detecting unit which detects
4 transmission power of the ~~own communication station~~ apparatus;

5 a transmission power correcting unit which corrects the
6 detected transmission power in response to a communication
7 condition of the ~~own communication station~~ apparatus;

8 and an error calculating unit which calculates an error
9 between the corrected transmission power and target
10 transmission power,

11 wherein both said power amplification control unit and
12 said matching control unit execute the control operations
13 thereof based upon the calculated error.

1 7. (original) A wireless communication apparatus as
2 claimed in claim 6 further comprising an error selecting unit
3 which selects an error occurred in an effective control
4 section from the plurality of errors which are calculated over
5 a plurality of control sections, wherein both said power

6 amplification control unit and said matching control unit
7 execute the control operations based upon the selected error.

1 8. (original) A wireless communication apparatus as
2 claimed in claim 7 further comprising an error averaging unit
3 which averages the selected error, wherein both said power
4 amplification control unit and said matching control unit
5 executes the control operations based upon the averaged error.

1 9. (original) A wireless communication apparatus as
2 claimed in claim 6 further comprising:
3 a correction amount calculating unit which calculates a
4 correction amount based upon the error; and
5 a correction amount limiting unit which limits the
6 calculated correction amount, wherein
7 both said power amplification control unit and said
8 matching control unit execute the control operations based
9 upon the limiting correction amount.

10 10. (currently amended) A transmission power control
11 method for controlling transmission power of a the own
12 communication station apparatus by employing a transmission
13 power control bit which is sent from a counter communication
14 station to the own communication station apparatus, comprising
15 a step of:
16 dynamically changing a control period of said
17 transmission power control bit in response to a transmission
18 condition.

1 11. (original) A transmission power control method as
2 claimed in claim 10 further comprising a step of changing a
3 transmission power control range corresponding to said
4 transmission power control bit.

1 12. (currently amended) A transmission power control
2 method as claimed in claim 10 further comprising a step of
3 detecting a condition of the ~~own-station~~ apparatus and a
4 condition of the communication counter station, wherein the
5 control period is changed based upon said detected condition.

1 13. (currently amended) A transmission power control
2 method as claimed in claim 11 further comprising a step of
3 detecting a condition of the ~~own-station~~ apparatus and a
4 condition of the communication counter station, wherein the
5 control period is changed based upon the detected condition,
6 and further wherein the transmission power control range is
7 changed based upon said detected condition.

1 14. (currently amended) A transmission power control
2 method in which transmission power transmitted from a ~~the own~~
3 ~~communication-station~~ apparatus to a counter communication
4 station is controlled by way of a first power amplifier and a
5 second power amplifier, comprising steps of:
6 controlling a gain of the first power amplifier;
7 matching a characteristic of the second power amplifier
8 by way of a matching circuit ~~for~~ on an input to said second
9 power amplifier; and
10 controlling the matching circuit.

1 15. (currently amended) A transmission power control
2 method as claimed in claim 14 further comprising steps of:
3 detecting transmission power of the ~~own-communication~~
4 ~~station~~ apparatus;
5 correcting the detected transmission power in response to
6 a communication condition of the ~~own-communication-station~~

7 apparatus; and calculating an error between said corrected
8 transmission power and target transmission power,
9 wherein the first amplifier and the matching circuit are
10 controlled based upon the calculated error.

1 16. (original) A transmission power control method as
2 claimed in claim 15 further comprising a step of selecting an
3 error occurred in an effective control section from the
4 plurality of errors which are calculated over a plurality of
5 control sections, wherein the first amplifier and the matching
6 circuit are controlled based upon the selected error.

1 17. (original) A transmission power control method as
2 claimed in claim 16 further comprising a step of averaging the
3 selected error, wherein the first amplifier and the matching
4 circuit are controlled based upon said averaged error.

1 18. (original) A transmission power control method as
2 claimed in claim 15 further comprising steps of: calculating a
3 correction amount based upon the error; and
4 limiting said calculated correction amount, wherein
5 the first amplifier and the matching circuit are
6 controlled based upon the limited correction amount.